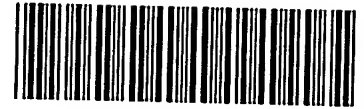


#10



ENTERED

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,965A

DATE: 12/26/2002

TIME: 13:34:07

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

3 <110> APPLICANT: COLAS, PIERRE
 4 BRENT, ROGER
 5 COHEN, BARAK A.
 7 <120> TITLE OF INVENTION: TARGETED MODIFICATION OF INTRACELLULAR COMPOUNDS
 9 <130> FILE REFERENCE: EGYP 3.0-015
 11 <140> CURRENT APPLICATION NUMBER: 10/066,965A
 C--> 12 <141> CURRENT FILING DATE: 2002-12-09
 14 <160> NUMBER OF SEQ ID NOS: 33
 16 <170> SOFTWARE: PatentIn Ver. 2.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 20
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 25 peptide
 27 <400> SEQUENCE: 1
 28 Gln Val Trp Ser Leu Trp Ala Leu Gly Trp Arg Trp Leu Arg Arg Tyr
 29 1 5 10 15
 31 Gly Trp Asn Met
 32 20
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 20
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 42 peptide
 44 <400> SEQUENCE: 2
 45 Gln Val Trp Ser Ser Trp Ala Leu Gly Trp Arg Trp Leu Arg Arg Tyr
 46 1 5 10 15
 48 Gly Trp Gly Met
 49 20
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 20
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 59 peptide
 61 <400> SEQUENCE: 3
 62 Pro Arg Gly Ala Pro Met Trp Met Arg Trp Val Cys Gln Met Leu Glu
 63 1 5 10 15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,965A

DATE: 12/26/2002

TIME: 13:34:07

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

```

65 Thr Met Phe Leu
66      20
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 20
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
76     peptide
78 <400> SEQUENCE: 4
79 Pro Arg Gly Ala Pro Met Trp Leu Arg Cys Val Cys Gln Met Leu Glu
80   1             5             10             15
82 Thr Lys Phe Leu
83      20
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 5
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker peptide
94 <400> SEQUENCE: 5
95 Gly Gly Gly Gly Gly
96   1             5
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 15
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker peptide
107 <400> SEQUENCE: 6
108 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
109   1             5             10             15
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 20
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
119     peptide
121 <400> SEQUENCE: 7
122 Gln Val Trp Ser Leu Trp Ala Leu Gly Trp Arg Trp Leu Arg Arg Tyr
123   1             5             10             15
125 Gly Trp Asn Met
126      20
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 20
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,965A

DATE: 12/26/2002

TIME: 13:34:07

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

```

135 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
136     peptide
138 <400> SEQUENCE: 8
139 Gln Val Trp Ser Ser Trp Ala Leu Gly Trp Arg Trp Leu Arg Arg Tyr
140   1             5             10             15
142 Gly Trp Gly Met
143             20
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 6
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: 6-His tag
154 <400> SEQUENCE: 9
155 His His His His His His
156   1             5
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 7
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
166     peptide
168 <400> SEQUENCE: 10
169 Lys Lys Lys Lys Lys Lys Lys
170   1             5
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 31
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
180     oligonucleotide
182 <400> SEQUENCE: 11
183 atatctcgag attaaagtac gtagaaagaa c
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 38
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
193     oligonucleotide
195 <400> SEQUENCE: 12
196 atatgtcgac ggatcctcat tcttgaccaa accctatg
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 53
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:

```

31

38

RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/10/066,965A

TIME: 13:34:07

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

205 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 206 oligonucleotide
 208 <400> SEQUENCE: 13
 209 ggaggcgaat tcgccgccac ccatggccga taaaattatt cacctgactg acg 53
 212 <210> SEQ ID NO: 14
 213 <211> LENGTH: 32
 214 <212> TYPE: DNA
 215 <213> ORGANISM: Artificial Sequence
 217 <220> FEATURE:
 218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 219 oligonucleotide
 221 <400> SEQUENCE: 14
 222 atatctcgag cgccagggtta gcgtcgagga ac 32
 225 <210> SEQ ID NO: 15
 226 <211> LENGTH: 55
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Artificial Sequence
 230 <220> FEATURE:
 231 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 232 oligonucleotide
 234 <400> SEQUENCE: 15
 235 atatgaattc gccgccacca tggccattaa agtacgtaga aagaacattt ttgag 55
 238 <210> SEQ ID NO: 16
 239 <211> LENGTH: 32
 240 <212> TYPE: DNA
 241 <213> ORGANISM: Artificial Sequence
 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 245 oligonucleotide
 247 <400> SEQUENCE: 16
 248 gccaaaatct cacacagctt ttaacagagt tg 32
 251 <210> SEQ ID NO: 17
 252 <211> LENGTH: 33
 253 <212> TYPE: DNA
 254 <213> ORGANISM: Artificial Sequence
 256 <220> FEATURE:
 257 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 258 oligonucleotide
 260 <400> SEQUENCE: 17
 261 cgctaacctg gcgcctagga ttaaagtacg tag 33
 264 <210> SEQ ID NO: 18
 265 <211> LENGTH: 38
 266 <212> TYPE: DNA
 267 <213> ORGANISM: Artificial Sequence
 269 <220> FEATURE:
 270 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 271 oligonucleotide
 273 <400> SEQUENCE: 18
 274 atatgtcgac ggatcctcat tcttgaccaa accctatg 38

RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/10/066,965A

TIME: 13:34:07

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

```

277 <210> SEQ ID NO: 19
278 <211> LENGTH: 53
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
284     oligonucleotide
286 <400> SEQUENCE: 19
287 ggaggcgaat tcgccgccac ccatggccga taaaattatt cacctgactg acg          53
290 <210> SEQ ID NO: 20
291 <211> LENGTH: 27
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297     oligonucleotide
299 <400> SEQUENCE: 20
300 aattgaagaa gaaaaaaaaaag aaaaagc          27
303 <210> SEQ ID NO: 21
304 <211> LENGTH: 27
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
310     oligonucleotide
312 <400> SEQUENCE: 21
313 aattgctttt tctttttttt cttcttc          27
316 <210> SEQ ID NO: 22
317 <211> LENGTH: 20
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
323     peptide
325 <400> SEQUENCE: 22
326 Pro Arg Gly Ala Pro Met Trp Met Arg Trp Val Cys Gln Met Leu Glu
327   1           5           10           15
329 Thr Met Phe Leu
330           20
333 <210> SEQ ID NO: 23
334 <211> LENGTH: 20
335 <212> TYPE: PRT
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
340     peptide
342 <400> SEQUENCE: 23
343 Pro Arg Gly Ala Pro Met Trp Leu Arg Cys Val Cys Gln Met Leu Glu
344   1           5           10           15

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/066,965A

DATE: 12/26/2002

TIME: 13:34:08

Input Set : A:\Egyp3015.app

Output Set: N:\CRF4\12262002\J066965A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date